

## WE CLAIM:

An injection unit for an injection-molding machine for processing thermoplastic material, the injection-molding machine having a screw which is guided in a cylinder and the axial movement of which can be initiated by a first motor and the rotary movement of which can be initiated by a second motor, an electrical direct drive being provided as the first motor, wherein only the second motor is connected to the screw via a gear mechanism in such a way that the rotational speed of the second motor can be reduced to a lower speed of the screw adapted to the material-preparing process.

- 2. The injection that according to claim 1, wherein the gear mechanism can be blocked during the operation of injecting the thermoplastic material.
- 3. The injection unit according to claim 2, wherein a non-return valve is provided as the block.
- 4. The injection unit according to claim 2, wherein a belt-pulley gear is provided as the gear mechanism.
- 5. The injection unit according to claim 1, wherein the first motor rotatably moves a spindle which is connected to the screw via a displaceably secured spindle nut.

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